

Title (en)
SIGNAL CHAIN WITH EMBEDDED POWER MANAGEMENT

Title (de)
SIGNALKETTE MIT INTEGRIERTEM ENERGIEMANAGEMENT

Title (fr)
CHAÎNE DE SIGNAL À GESTION INTÉGRÉE DE L'ALIMENTATION

Publication
EP 4024009 B1 20240424 (EN)

Application
EP 21216605 A 20211221

Priority
US 202017138295 A 20201230

Abstract (en)
[origin: EP4024009A1] A system for processing a signal in a signal chain having decentralized embedded power management of components of the signal chain includes an input circuit (110) to generate a measurement signal responsive to a stimulus, where the measurement signal is indicative of a characteristic of the stimulus. The system additionally includes a signal converter circuit (115) coupled to the input circuit (110) to convert the measurement signal to a digital signal according to a timing condition for capturing a sample of the measurement signal. The signal converter (115) includes a control circuit (120) to provide electrical power to the input circuit (110) based on the timing condition and a sampling circuit (140) to capture the sample of the measurement signal responsive to an indicator signal generated by the sensor circuit (105).

IPC 8 full level
G01D 21/00 (2006.01); **G01R 19/00** (2006.01)

CPC (source: EP US)
G01D 21/00 (2013.01 - EP); **H03K 5/2472** (2013.01 - US); **H03M 1/12** (2013.01 - US); **G01R 19/00** (2013.01 - EP); **H02M 7/36** (2013.01 - US); **H03F 3/38** (2013.01 - US); **H03K 17/6871** (2013.01 - US)

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 4024009 A1 20220706; EP 4024009 B1 20240424; JP 2022104910 A 20220712; US 11652492 B2 20230516; US 2022209681 A1 20220630

DOCDB simple family (application)
EP 21216605 A 20211221; JP 2021214389 A 20211228; US 202017138295 A 20201230